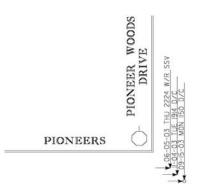
5.16 Pioneers Boulevard and Stacy Lane

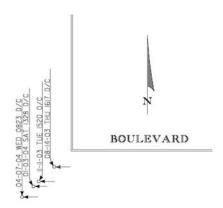
BEFORE

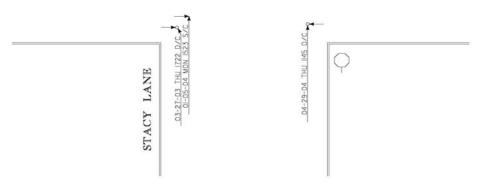
ADT: 5,500 veh/day **Traffic Control:** NB/SB Stop Sign

Time Period: Crash Pattern: 1/1/03-6/1/04

rash Pattern: NB & SB Right Angles







Total Crashes in Before Period: 10



5.16 Pioneers Boulevard and Stacy Lane

AFTER

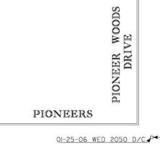
Countermeasures: Installed Traffic Signal

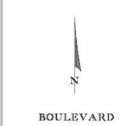
Improvement Completion Date: July 13, 2004

Time Period: Speed Limits:

1/1/05-6/1/06 NS Local- 25 mph

EW Arterial- 45 mph







Total Crashes in After Period: 2



Pioneers Boulevard and Stacy Lane - Westbound Approach (After)



5.16 Pioneers Boulevard and Stacy Lane

COMPARISON

Countermeasures: Installed Traffic Signal

Improvement Completion Date: July 13, 2004

	Before	After	Change
	1/1/03-6/1/04	1/1/05-6/1/06	-
Analysis Period			
Primary Crash Benefit			
Total Number of Correctable Crashes	10	0	-100%
All Other Intersection Crashes	0	2	0%
Intersection Crash Experience			
Injury + Fatal Crashes	7	2	-71%
Property Damage-Only Crashes	3	0	-100%
Non-Reportable Crashes	0	0	0%
Total Number of Intersection Crashes	10	2	-80%
Total Intersection Benefit			
Crash Rate	3.52		-100%
EPDO Rate	25.34		-100%
EPDO Number*	71.92		-71.92
Cost of Property Damage Crash:	\$ 8,200		
Total Benefit (12 months):	\$ 589,744		
Equivalent Uniform Annual Benefit (EUAB):	\$ 428,500		
Total Cost of Improvements:			

Equivalent Uniform Annual Cost (EUAC): \$ 8,235 Initial Cost: \$ 80,000

Benefit-Cost Ratio: $\frac{$428,500}{$8,235} = 52.0$

Net Benefit (Present Worth): \$ 428,500 - \$8,235 = \$420,265

*Change NOT Stastically Significant at 95% Confidence Interval



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